| L Number | Hits     | Search Text  | DB        | Time stamp |
|----------|----------|--|-----------|------------|
| 1        | 167      | 123/200-249.ccls. and ((ambient or atmospheric) near   | USPAT;    | 2004/05/28 |
|          |          | pressure)  | US-PGPUB; | 08:36      |
|          |          |  | EPO; JPO; |            |
|          |          |  | DERWENT;  |            |
|          |          | •  | IBM_TDB   |            |
| 2        | 19       | 123/200-249.ccls. and ((ambient or atmospheric) near   | USPAT;    | 2004/05/28 |
| ٤.       | 17       | pressure) and (toric or toroid or toroidal)  | US-PGPUB; | 07:57      |
|          |          | pressure) and (for it of for old or for oldar)   | EPO; JPO; | 0,.0,      |
|          |          |  | DERWENT;  |            |
|          |          |  |           |            |
|          |          | 404  | IBM_TDB   | 2004/05/29 |
| 3        | 546      | 418/\$.ccls. and ((ambient or atmospheric) near pressure)  | USPAT;    | 2004/05/28 |
|          |          |  | US-PGPUB; | 08:36      |
|          |          |  | EPO: JPO: |            |
|          |          |  | DERWENT;  |            |
| }        |          |  | IBW_LDB   |            |
| 4        | 137      | 418/\$.ccls. and ((ambient or atmospheric) near pressure)  | USPAT;    | 2004/05/28 |
|          |          | and (internal near3 (engine or engines))   | US-PGPUB; | 08:49      |
|          |          |  | EPO; JPO; |            |
|          |          |  | DERWENT;  |            |
|          |          |  | IBM_TDB   |            |
| 5        | 29       | 418/\$.ccls. and ((ambient or atmospheric) near pressure)  | USPAT;    | 2004/05/28 |
| J        | 29       | and (internal near3 (engine or engines)) and (external   | US-PGPUB; | 08:47      |
|          |          | The state of the s | EPO; JPO; | 00.47      |
|          |          | near3 (engine or engines))   |           |            |
|          |          |  | DERWENT;  |            |
|          |          |  | IBW_TDB   |            |
| 6        | 22       | (418/\$. ccls. or 417/\$.ccls.) and ((ambient or   | USPAT;    | 2004/05/28 |
|          | •        | atmospheric) near pressure) and (internal near3 (engine  | US-PGPUB; | 08:48      |
|          |          | or engines)) and (external near3 (engine or engines))  | EPO; JPO; |            |
|          |          |  | DERWENT;  |            |
|          |          |  | IBM_TDB   |            |
| 7        | 50       | (418/\$, ccls. or 417/\$.ccls. or 123/200-249.ccls.) and   | USPAT;    | 2004/05/28 |
| ·        |          | ((ambient or atmospheric) near pressure) and (internal   | US-PGPUB; | 08:48      |
|          |          | near3 (engine or engines)) and (external near3 (engine or  | EPO; JPO; |            |
|          |          | engines))  | DERWENT;  |            |
|          |          | erigines))   | IBM_TDB   |            |
| 0        | 28       | 419/\$ calc and ((ambient on atmospheric) near pressure)   | USPAT;    | 2004/05/28 |
| 8        | 20       | 418/\$.ccls. and ((ambient or atmospheric) near pressure)  | US-PGPUB; | 08:50      |
|          |          | and (internal near3 (engine or engines)) and (ring near5   | 1         | 00.50      |
|          |          | (move or moves or movable or moving or rotate or rotates   | EPO; JPO; |            |
|          |          | or rotating or rotatable or rotation or rotational or  | DERWENT;  |            |
|          |          | rotatably or rotationally))  | IBW_TDB   |            |
| 9        | 406      | ((ambient or atmospheric) near pressure) and (internal   | USPAT;    | 2004/05/28 |
|          |          | near3 (engine or engines)) and (ring near5 (move or  | US-PGPUB; | 08:51      |
|          |          | moves or movable or moving or rotate or rotates or   | EPO; JPO; |            |
|          |          | rotating or rotatable or rotation or rotational or   | DERWENT;  |            |
|          |          | rotatably or rotationally))  | IBM_TDB   |            |
| 10       | 31       | ((ambient or atmospheric) near pressure) and (internal   | USPAT;    | 2004/05/28 |
|          | <b>.</b> | near3 (engine or engines)) and (external near3 (engine or  | US-PGPUB; | 08:54      |
|          |          | engines))and (ring near5 (move or moves or movable or  | EPO; JPO; |            |
|          |          | moving or rotate or rotates or rotating or rotatable or  | DERWENT;  |            |
|          |          |  | IBM_TDB   |            |
| .        |          | rotation or rotational or rotatably or rotationally))  |           | 2004/05/20 |
| 11       | 1        | 2003-148346.NRAN.  | DERWENT   | 2004/05/28 |
|          |          |  |           | 08:53      |
| 12       | 1        | 2003-148346.NRAN.  | DERWENT   | 2004/05/28 |
|          |          | ·  |           | 08:54      |

| 13 | 31  | ((ambient or atmospheric) near pressure) and (internal     | USPAT;    | 2004/05/28 |
|----|-----|--|-----------|------------|
| "  |     | near3 (engine or engines)) and (external near3 (engine or  | US-PGPUB; | 08:54      |
|    |     | engines)) and (ring near5 (move or moves or movable or     | EPO; JPO; |            |
|    |     | moving or rotate or rotates or rotating or rotatable or    | DERWENT;  | ·          |
|    |     | rotation or rotational or rotatably or rotationally))      | IBM_TDB   |            |
| 15 | 9   | ((ambient or atmospheric) near pressure) and (external     | USPAT;    | 2004/05/28 |
|    |     | near3 (engine or engines)) and (("expansion ring" or       | US-PGPUB; | 08:55      |
|    |     | "outer rotor") near5 (move or moves or movable or          | EPO; JPO; |            |
|    |     | moving or rotate or rotates or rotating or rotatable or    | DERWENT;  |            |
|    |     | rotation or rotational or rotatably or rotationally))      | IBM_TDB   |            |
| 14 | 14  | ((ambient or atmospheric) near pressure) and (internal     | USPAT;    | 2004/05/28 |
|    |     | near3 (engine or engines)) and (("expansion ring" or       | US-PGPUB; | 09:26      |
|    |     | "outer rotor") near5 (move or moves or movable or          | EPO; JPO; |            |
|    |     | moving or rotate or rotates or rotating or rotatable or    | DERWENT;  |            |
|    |     | rotation or rotational or rotatably or rotationally))      | IBM_TDB   |            |
| 16 | 2   | (internal near3 (engine or engines)) and (("expansion      | USPAT;    | 2004/05/28 |
| -  | _   | ring" or "outer rotor") near5 (move or moves or movable    | US-PGPUB: | 09:28      |
|    |     | or moving or rotate or rotates or rotating or rotatable or | EPO; JPO; |            |
|    |     | rotation or rotational or rotatably or rotationally)) and  | DERWENT;  |            |
|    |     | (((power or firing or fire or explosion) near3 chamber)    | IBM_TDB   |            |
|    |     | same (intake near3 chamber))                               |           |            |
| 17 | 6   | (internal near3 (engine or engines)) and (("expansion      | USPAT;    | 2004/05/28 |
|    |     | ring" or "outer rotor") near5 (move or moves or movable    | US-PGPUB; | 09:29      |
|    |     | or moving or rotate or rotates or rotating or rotatable or | EPO; JPO; |            |
|    |     | rotation or rotational or rotatably or rotationally)) and  | DERWENT;  |            |
|    |     | ((power or firing or fire or explosion) near3 (volume or   | IBM_TDB   |            |
|    |     | chamber)) and (intake near3 (volume orchamber))            |           |            |
| 18 | 43  | (engine or engines) and (("expansion ring" or "outer       | USPAT;    | 2004/05/28 |
|    |     | rotor" or ring) near5 (move or moves or movable or         | US-PGPUB; | 09:30      |
|    |     | moving or rotate or rotates or rotating or rotatable or    | EPO; JPO; |            |
|    |     | rotation or rotational or rotatably or rotationally)) and  | DERWENT:  |            |
|    |     | ((power or firing or fire or explosion) near3 (volume or   | IBM_TDB   |            |
|    |     | chamber)) and (intake near3 (volume orchamber))            | _         |            |
| 19 | 127 | (engine or engines) and (("expansion ring" or "outer       | USPAT;    | 2004/05/28 |
|    |     | rotor" or ring) near5 (move or moves or movable or         | US-PGPUB; | 09:30      |
|    |     | moving or rotate or rotates or rotating or rotatable or    | EPO; JPO; |            |
|    |     | rotation or rotational or rotatably or rotationally)) and  | DERWENT;  |            |
|    |     | ((power or firing or fire or explosion) near3 (volume or   | IBM_TDB   |            |
|    |     | chamber)) and (intake near3 (volume or chamber))           | _         |            |
| 20 | 57  | (rotary near5 (engine or engines)) and (("expansion ring"  | USPAT;    | 2004/05/28 |
|    |     | or "outer rotor" or ring) near5 (move or moves or          | US-PGPUB; | 09:37      |
|    |     | movable or moving or rotate or rotates or rotating or      | EPO; JPO; |            |
|    |     | rotatable or rotation or rotational or rotatably or        | DERWENT;  |            |
|    |     | rotationally)) and ((power or firing or fire or explosion) | IBM_TDB   |            |
|    |     | near3 (volume or chamber)) and (intake near3 (volume or    |           |            |
|    |     | chamber))  |           |            |
| 21 | 85  | (rotary near5 (engine or engines)) and (("expansion ring"  | USPAT;    | 2004/05/28 |
|    |     | or "outer rotor" or ring) near5 (move or moves or          | US-PGPUB; | 09:39      |
|    |     | movable or moving or rotate or rotates or rotating or      | EPO; JPO; |            |
|    |     | rotatable or rotation or rotational or rotatably or        | DERWENT;  |            |
|    | ļ   | rotationally)) and ((power or firing or fire or expansion) | IBM_TDB   |            |
|    |     | near3 (volume or chamber)) and (intake near3 (volume or    |           |            |
|    |     | chamber))  |           |            |

| 22 | 7        | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;                 | 2004/05/28          |
|----|----------|---|------------------------|---------------------|
| ۷۵ | <b>'</b> | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;              | 09:40               |
|    |          | movable or moving or rotate or rotates or rotating or   | EPO; JPO;              |                     |
|    |          | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and ((power or firing or fire or expansion)  | IBM_TDB                |                     |
|    |          | near3 (volume or chamber)) and (intake near3 (volume or   |                        |                     |
|    |          | chamber)) and ("3 times" or "4 times")  |                        |                     |
| 23 | 80       | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;                 | 2004/05/28          |
| 23 |          | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;              | 09:47               |
|    |          | movable or moving or rotate or rotates or rotating or   | EPO; JPO;              |                     |
|    |          | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and ((power or firing or fire or expansion)  | IBM_TDB                |                     |
|    |          | near3 (volume or chamber)) and (intake near3 (volume or   |                        |                     |
|    |          | chamber)) and (time or times)   |                        |                     |
| 25 | 7        | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;                 | 2004/05/28          |
|    |          | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;              | 09:48               |
|    |          | movable or moving or rotate or rotates or rotating or   | EPO; JPO;              |                     |
|    |          | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and ((detonation or "shape charge" ) near3   | IBM_TDB                |                     |
|    |          | cycle)  |                        |                     |
| 24 | 21       | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;                 | 2004/05/28          |
|    |          | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;              | 09:49               |
|    |          | movable or moving or rotate or rotates or rotating or   | EPO; JPO;              |                     |
|    |          | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and ((detonation or charge ) near3 cycle)  | IBW_LDB                |                     |
| 26 | 7        | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;                 | 2004/05/28          |
|    |          | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;              | 09:51               |
|    | ļ.       | movable or moving or rotate or rotates or ropating or   | EPO; JPO;              |                     |
|    |          | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and (detonation near3 cycle)   | IBW_TDB                |                     |
| 27 | 0        | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;                 | 2004/05/28          |
|    |          | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;              | 09:52               |
|    |          | movable or moving or rotate or rotates or rotating or   | EPO; JPO;              |                     |
|    |          | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and ((implement or implemented or  | IBM_TDB                |                     |
|    |          | implementing or implements) near3 detonation)   |                        | 2004/05/05          |
| 28 | 0        | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;                 | 2004/05/28          |
|    |          | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;              | 09:52               |
|    |          | movable or moving or rotate or rotates or rotating or   | EPO; JPO;              |                     |
|    | ,        | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and ((implement or implemented or  | IBM_TDB                |                     |
|    | _        | implementing or implements) near7 detonation)   | LICDAT:                | 2004/05/29          |
| 29 | 0        | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;                 | 2004/05/28<br>09:52 |
|    |          | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;<br>EPO; JPO; | 09.02               |
|    |          | movable or moving or rotate or rotates or rotating or   |                        |                     |
|    |          | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and ((implement or implemented or  | IBW_TDB                |                     |
| 30 | 2        | <pre>implementing or implements) near10 detonation ) (rotary near5 (engine or engines)) and (("expansion ring")</pre> | USPAT;                 | 2004/05/28          |
| 30 | 2        | or "outer rotor" or ring) near5 (move or moves or   | US-PGPUB;              | 09:53               |
|    |          | movable or moving or rotate or rotates or rotating or   | EPO; JPO;              | 09.00               |
|    |          | rotatable or rotation or rotational or rotatably or   | DERWENT;               |                     |
|    |          | rotationally)) and ((implement or implemented or  | IBM_TDB                |                     |
|    |          | implementing or implements) and detonation )  |                        |                     |
|    |          | implementing of implemental and detonation /  | J                      |                     |

| 31 | 84 | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;    | 2004/05/28 |
|----|----|---|-----------|------------|
|    |    | or "outer rotor" or ring) near5 (move or moves or           | US-PGPUB; | 09:54      |
|    |    | movable or moving or rotate or rotates or rotating or       | EPO; JPO; |            |
|    |    | rotatable or rotation or rotational or rotatably or         | DERWENT;  |            |
|    |    | rotationally)) and (detonation or explosion)                | IBM_TDB   |            |
| 32 | 11 | (rotary near5 (engine or engines)) and (("expansion ring"   | USPAT;    | 2004/05/28 |
|    |    | or "outer rotor" or ring) near5 (move or moves or           | US-PGPUB; | 09:54      |
|    |    | movable or moving or rotate or rotates or rotating or       | EPO; JPO; |            |
|    |    | rotatable or rotation or rotational or rotatably or         | DERWENT;  |            |
|    |    | rotationally)) and ((detonation or explosion) near 3 cycle) | IBM_TDB   |            |